Name of Work : Development of Doddabommasandra Lake, Phase 2, Bangalore.

Modified Estimate

SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (PWD BCSR 2014-15, P-5 I-2.3) Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs. add 25% extra and for width upto 600 mm add 50% extra for respective rates due to restricted conditions.As directed by the engineer in charge								
	Not Operated								
2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification As directed by the engineer in charge								
	For Toe wall								
	Main bund	cum	1	386.00	0.60	0.075	17.37		
	Ring bund	cum	1	515.00	0.60	0.075	23.18		
	Island-1	cum	1	215.00	0.60	0.075	9.68		
	Island-2	cum	1	202.00	0.60	0.075	9.09		
	Wetland bund	cum	2	179.00	0.60	0.075	16.11		
		cum	1	94.20	0.60	0.075	4.24		
		cum	1	66.15	0.60	0.075	2.98		
		cum	1	27.25	0.60	0.075	1.23		
		cum	1	18.85	0.60	0.075	0.85		
	for Island-1 inside wetland	cum	1	23.00	0.60	0.075	1.04		
	for Island-2 inside wetland	cum	1	43.50	0.60	0.075	1.96		
	For Templates								
	Main bund	cum	27	6.50	0.45	0.075	5.92		
	Island-1	cum	14	4.00	0.45	0.075	1.89		
	Island-2	cum	13	5.00	0.45	0.075	2.19		
	Wetland bund	cum	29	3.40	0.45	0.075	3.33		
	for Island-1 inside wetland	cum	3	2.50	0.45	0.075	0.25		
	for Island-2 inside wetland	cum	6	3.50	0.45	0.075	0.71		
	For Kerbs	cum	2	620.00	0.20	0.10	24.80		
	For Bench platform	cum	25	2.40	2.15	0.075	9.68		
		cum					136.47	5575.0	7,60,843.94

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
3	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) As directed by the engineer in charge								
	Not Operated								
4	Providing and fixing M.S. Block pipe of 38mm dia. of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. As directed by the engineer in charge								
	Not Operated								
5	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint As directed by the engineer in charge								
	Not Operated								
6	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, watersupply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil; clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1 (a) / 2.3.5 (P W D BCSR 2014-15, P-5 I-2.3) Note;- Excavation for foundation of buildings, water supply sanitary lines, electrical conduits either in pits or in trenches where excavation width is above 600 mm below 1.5 mtrs. add 25% extra As directed by the engineer in charge								
	Not Operated								
7	KSRB 2.8 : Providing and Filling in foundation with granite/trap broken metal 100 mm and down size,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications,As directed by the engineer in charge								
	Not Operated								
8	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification As directed by the engineer in charge								
	For Toe wall								
	Main bund	cum	1	386.00	0.60	0.15	34.74		
	Ring bund	cum	1	515.00	0.60	0.15			
	Island-1	cum	1	215.00	0.60	0.15	19.35		

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
	Island-2	cum	1	202.00	0.60	0.15	18.18		
	Wetland bund	cum	2	179.00	0.60	0.15	32.22		
		cum	1	94.20	0.60	0.15	8.48		
		cum	1	66.15	0.60	0.15	5.95		
		cum	1	27.25	0.60	0.15	2.45		
		cum	1	18.85	0.60	0.15	1.70		
	for Island-1 inside wetland	cum	1	23.00	0.60	0.15	2.07		
	for Island-2 inside wetland	cum	1	43.50	0.60	0.15	3.92		
	For Templates								
	Main bund	cum	27	6.50	0.45	0.15	11.85		
	Island-1	cum	14	4.00	0.45	0.15	3.78		
	Island-2	cum	13	5.00	0.45	0.15	4.39		
	Wetland bund	cum	29	3.40	0.45	0.15	6.66		
	for Island-1 inside wetland	cum	3	2.50	0.45	0.15	0.51		
	for Island-2 inside wetland	cum	6	3.50	0.45	0.15	1.42		
		cum					157.65	5100.0	8,04,007.35
9	KSRB 5.2-3:Providing and constructing granite / trap / basalt size stone masonry in foundation CM 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in eachcourse including cost of all materials, labour,curing complete as per specifications.Specification As directed by the engineer in charge								
	For Toe wall								
	Main bund	cum	1	386.00	0.60	0.90	208.44		
	Ring bund	cum	1	515.00	0.60	0.60	185.40		
	Island-1	cum	1	215.00	0.60	0.60	77.40		
	Island-2	cum	1	202.00	0.60	0.60	72.72		
	Wetland bund	cum	2	179.00	0.60	0.60	128.88		
		cum	1	94.20	0.60	0.60	33.91		
		cum	1	66.15	0.60	0.60	23.81		
		cum	1	27.25	0.60	0.60	9.81		
		cum	1	18.85	0.60	0.60	6.79		
	for Island-1 inside wetland	cum	1	23.00	0.60	0.60	8.28		
	for Island-2 inside wetland	cum	1	43.50	0.60	0.60	15.66		
	For Templates								
	Main bund	cum	25	6.40	0.45	0.45	32.40		
	Island-1	cum	14	4.00	0.45	0.45	11.34		
						0.45			
	Island-2	cum	13	5.00	0.45	0.45	13.16		
	Wetland bund	cum	29	3.40	0.45	0.45	19.97		
	for Island-1 inside wetland	cum	3	2.50	0.45	0.45	1.52		
	for Island-2 inside wetland	cum	6	.3.50	0.45	0.45	4.25		
	Damaged portion of Old SSM drain	cum	1	60.00	0.98	2.30	134.55		
		cum	1	45.00	0.98	2.15	94.33		
		cum					**1082.62**		
		cum				upto 125%	**454.80**	4000.00	18,19,200.00
		cum				above 125%	**627.82**	4314.03	27,08,452.39

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
10	KSRB 5.3-3:Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m apart in eachcourse including cost of all materials, labour,scaffolding, curing complete as per specifications. Specification As directed by the engineer in charge								
	Not Operated								
11	KSRB 2-3:Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with alead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specifications As directed by the engineer in charge								
	park area	cum	2	620	0.25	0.30	93.00		
		cum					93.00	124.00	11,532.00
12	KSRB 6-6.2 : Providing and constructing burnt brick masonry with approved quality of non- modular bricks of standard size of class designation 75 (Machine moulded Wirecut bricks) with cement mortar 1 :6 for basement and superstructure with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 complete As directed by the engineer in charge								
	Not Operated								
13	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. As directed by the engineer in charge								
	Not Operated								
14	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification As directed by the engineer in charge								
	Not Operated								

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
15	Providing and casting reinforced cement concrete racks with design mix M20, granite or trap jelly 12mm and down size 5 cms thick and below with reinforcements of 6mm dia MS bars at 15 cms. Centre to centre for main reinforcement and at 30cms centre to centre for distribution including supports wherever necessary with burnt brick in CM 1:8 and plastered with CM 1:4 or composite mortar 1:6 including centring, form work, curing etc., complete (inclusive of cost of steel and fabrication charges). As directed by the engineer in charge								
	Not Operated								
16	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specificaitons. Specification No.As directed by the engineer in charge								
	Not Operated								
17	KSRB 4-6.15 : Providing and removing centering, shuttering, strutting, propping etc., and removal of formwork for where inclination to horizontal plane exceeds 30 degree (where shuttering may be provided both on underside and upper side if required) including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 etc., (P W D BCSR 2014-15, P-17 I-4.42)								
	Not Operated								
18	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specificaitons. Specification As directed by the engineer in charge								
	Not Operated								
19	KSRB 4-9.2: Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding whereever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and Paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification As directed by the engineer in charge								
	Not Operated								
20	KSRB15-3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.As directed by the engineer in charge								
	Not Operated								
21	KSRB15-3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. etc., As directed by the engineer in charge								
	Not Operated								

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
22	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining including cost of materials, labour, curing complete as per specifications As directed by the engineer in charge								
	Not Operated								
23	KSRB 9.4-5 : Providing Red Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. As directed by the engineer in charge								
	Not Operated								
24	KSRB 7.4 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications.1 double leaf door of size 2.4x2.4mSpecification As directed by the engineer in charge								
	Not Operated								
25	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications. As directed by the engineer in charge								
	Not Operated								
26	KSRB 9-13-3 : Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick of exterior grade plain particle board including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification As directed by the engineer in charge								
	Not Operated								
27	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications As directed by the engineer in charge								
	Not Operated								

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SL No.	Specification	UNIT	No	L	B	D	Quantity	RATE (in Rs)	AMOUNT (in Rs)
28	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. As directed by the engineer in charge								
	Not Operated								
29	KSRB 15-17.2 : Applying priming coat over new wood surface and / or wood based surface after brushing with wood primer pink paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.As directed by the engineer in charge								
	Not Operated								
30	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. As directed by the engineer in charge								
	Not Operated								
31	Solid Panel PVC Door Shutter : Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges. As directed by the engineer in charge								
	Not Operated								
32	Solid PVC Door Frame : Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm lo ng brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. As directed by the engineer in charge								
	Not Operated								
33	KSRB 14.7-2 : Providing and laying red oxide flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5 kg of red oxide per 50 kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion) , including cost of materials, labour, curing, complete as per specifications. Specification As directed by the engineer in charge								
	Not Operated								

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